

JOB TITLE: Mechanical Engineering Research Associate
START DATE: August 2019 – August 2020
DEPARTMENT: Research and Innovation Division
SALARY: \$20.00 per hour

Located at the Welland Campus of Niagara College, the Walker Advanced Manufacturing Innovation Centre (WAMIC) provides small regional manufacturers access to needed facilities, equipment, technical expertise and serves to assist them in product development, technology adoption, expansion into new markets and commercialization.

The successful candidate may work on research projects in the following areas:

- Additive Manufacturing
- Product Design & Development
- Product Testing
- Reality/Spatial Capture
- Reverse Engineering
- Lean Manufacturing Assessment

MAIN FUNCTIONS: The Mechanical Engineering Research Associate will have a comprehensive skill set to work with the Walker Advanced Manufacturing Innovation Centre team, Faculty Leads and Industry Partners on a variety of time-sensitive projects.

DUTIES:

- Develop solutions for specific industry-partnered applied research activities
- Serve as a mentor and provides coaching to Research Assistants
- Provide logistic support for mechanical engineering projects
- Foster effective team work between students, faculty members and industry
- Effective use of CAD, simulation, and point-cloud acquisition/manipulation software packages
- Accurately document, edit, and track records of project progress
- Develop comprehensive engineering reports to be submitted to industry partners
- Planning, implementing, and maintaining project timelines, as well as adhering to all required deadlines
- Proper maintenance and adherence to all software and paper filing systems and procedures
- Represent the Walker Advanced Manufacturing Innovation Centre at college activities and external events

EMPLOYMENT REQUIREMENTS:

- Graduate from a Mechanical Engineering Technician or Technology program
- Strong working knowledge of Autodesk Inventor 2014 or higher
- Knowledge of Rapid Prototyping and Additive Manufacturing
- Knowledge of 3D Laser based scanning, point cloud manipulation software
- Ability to supervise, coach, and mentor others
- Ability to be a project lead and a collaborative team member
- Demonstrates high level of organization and time management skills
- Demonstrates creativity in developing new ideas for project development
- Ability to communicate with non-technical and highly technical individuals

- Demonstrates an uncompromised commitment to confidentiality
- Strong communication (written/oral) and interpersonal skills
- Comfortable making presentations to small/large groups
- Experience with mechanical programming would be an asset

WORKING CONDITIONS:

- 35 hours per week between 8:30am – 4:30pm. Some evenings and weekend work may be required.
- This is a one-year, non-recurring contract.
- Some evenings and weekend work may be required.

To apply, please email your resume, cover letter, class schedule and transcript to researchjobs@niagaracollege.ca by Tuesday, July 23, 2019 at 12 pm. Please reference 'Mechanical Research Associate' in the subject line. While we appreciate all applications received, only those candidates selected for an interview will be contacted.